

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 November 2002 (14.11.2002)

PCT

(10) International Publication Number  
**WO 02/090530 A2**

(51) International Patent Classification<sup>7</sup>: C12N 9/00

(21) International Application Number: PCT/US02/01369

(22) International Filing Date: 16 January 2002 (16.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

|            |                               |    |
|------------|-------------------------------|----|
| 60/263,083 | 18 January 2001 (18.01.2001)  | US |
| 60/271,205 | 23 February 2001 (23.02.2001) | US |
| 60/271,117 | 23 February 2001 (23.02.2001) | US |
| 60/276,859 | 16 March 2001 (16.03.2001)    | US |
| 60/278,504 | 23 March 2001 (23.03.2001)    | US |
| 60/278,522 | 23 March 2001 (23.03.2001)    | US |
| 60/280,510 | 29 March 2001 (29.03.2001)    | US |
| 60/280,266 | 29 March 2001 (29.03.2001)    | US |

(71) Applicant (*for all designated States except US*): INCYTE GENOMICS, INC. [US/US]; 3160 Porter Drive, Palo Alto, CA 94304 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): LEE, Ernestine, A. [US/US]; 624 Kains Street, Albany, CA 94706 (US). WALIA, Narinder, K. [US/US]; 890 Davis Street #205, San Leandro, CA 94577 (US). BAUGHN, Mariah, R. [US/US]; 14244 Santiago Road, San Leandro, CA 94577 (US). ISON, Craig, H. [US/US]; 1242 Weathersfield Way, San Jose, CA 95118 (US). GURURAJAN, Rajagopal [IN/US]; 5591 Dent Avenue, San Jose, CA 95118 (US). ARVIZU, Chandra [US/US]; 490 Sherwood Way #1, Menlo Park, CA 94025 (US). YAO, Monique, G. [US/US]; 1189 Woodgate Drive, Carmel, IN 46033 (US). JACKSON, Jennifer, L. [US/US]; 4913 Deep

Creek Road, Fremont, CA 94555 (US). TANG, Tom, Y. [US/US]; 4230 Ranwick Court, San Jose, CA 95118 (US). YUE, Henry [US/US]; 826 Lois Avenue, Sunnyvale, CA 94087 (US). TRAN, Bao [US/US]; 750 Salberg Avenue, Santa Clara, CA 95051 (US). DING, Li [US/US]; 3353 Alma Street #146, Palo Alto, CA 94306 (US). LU, Dyung, Aina, M. [US/US]; 233 Coy Drive, San Jose, CA 95123 (US). LAL, Preeti, G. [IN/US]; P.O. Box 5142, Santa Clara, CA 95056 (US). WARREN, Bridget, A. [US/US]; 10130 Parkwood Drive #2, Cupertino, CA 95014 (US).

(74) Agents: HAMLET-COX, Diana et al.; Incyte Genomics, Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: KINASES AND PHOSPHATASES

(57) Abstract: The invention provides human kinases and phosphatases (KPP) and polynucleotides which identify and encode KPP. The invention also provides expression vector, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of KPP.

BEST AVAILABLE COPY

WO 02/090530 A2